

Kennecott  
Utah Copper  
P.O. Box 525  
Bingham Canyon, Utah 84006-0525  
(801) 569-6555

RECEIVED

JUL 17 1991

Cindy S. Emmons  
Director, Environmental Affairs

June 28, 1991

DIVISION OF  
OIL GAS & MINING

Wayne  
**Kennecott**

Mr. Lowell Braxton  
Division of Oil, Gas & Mining  
355 West North Temple  
III Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Subject: Environmental Actions for Bluewater 1 North Repository

Dear Mr. Braxton:

Attached, please find a copy of the Groundwater Discharge Permit Application sent to the Division of Environmental Health for the Bluewater 1 North Repository. Although this project does not involve "mining related activities" within the jurisdiction of your agency, we would value your observations and thoughts on these plans. The Groundwater Permit Application details the design and construction specifications for the repository. The permit application does not address revegetation of the site, so an additional attachment concerning the revegetation and final reclamation seed mix is also enclosed.

This project involves removing tailings from the Bingham Creek Channel and relocating the material to a suitable permanent repository. Kennecott has decided to undertake this project to address EPA and State concerns with potential problems posed by this material.

Please review the attached information concerning the environmental plans. Kennecott is not providing a formal Notice of Intent to Revise Mining Operation, because the project does not involve "mining related activities" within the jurisdiction of your agency. Although the project is located within the bounds of Kennecott's DOGM approved plan, we elected to give you an opportunity to provide your thoughts on our plans rather than to request that the land in question be removed from the permitted tract.

As you know, the repository is currently being used; we anticipate reclamation in the fall 1991. Please contact me if you would like to further discuss this project.

Very truly yours,

Cindy S. Emmons

Cindy S. Emmons  
Director, Environmental Affairs

DC:dbw

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SEE  
ITEM 4,  
PAGE 1  
OF GROUNDWATER  
PERMIT  
APPLICATION



DIVISION OF WATER QUALITY  
UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

PUBLIC NOTICE OF ISSUANCE OF GROUND WATER DISCHARGE PERMIT

PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS PUBLIC NOTICE IS TO DECLARE THE STATE OF UTAH'S INTENTION TO ISSUE A GROUND WATER DISCHARGE PERMIT UNDER AUTHORITY OF THE UTAH WATER QUALITY ACT, SECTION 19-5-104(9) AND R448-6 UTAH CODE ANNOTATED 1953, AS AMENDED.

PERMIT INFORMATION

PERMITTEE NAME: Kennecott Utah Copper

MAILING ADDRESS: 8362 West 10200 South  
Bingham Canyon, UT 84006

TELEPHONE NUMBER: (801) 569-6555

FACILITY LOCATION: Approximately 1/2 mile south of Copperton, UT

Kennecott Utah Copper (KUC) desires to operate the Bluewater 1 North Repository for disposal of mine tailings, waste rock, and soils contaminated by inorganic mining wastes from the Bingham Canyon Mining operations. The majority of the repository's capacity will be utilized for the disposal of lead and arsenic contaminated soils removed from the EPA sponsored Delta Area Project. The repository will be lined and capped with low permeability clay material. Ground water monitoring wells will be used to assess if the site is contaminating adjacent ground water with leachate from the repository. The repository encompasses an area of approximately 23 acres.

PUBLIC COMMENTS

Public comments are invited any time prior to January 2, 1992. Comments may be directed to the Utah Division of Water Quality, Department of Environmental Quality, Salt Lake City, Utah 84114-4870. All comments received prior to will be considered in the formulation of final determinations to be imposed on the permit. A public hearing will be held if response to this Notice indicates significant public interest.

FURTHER INFORMATION

Additional information may be obtained upon request by calling (801) 538-6146 or by writing the aforementioned address. Related documents are available for review at the Division of Water Quality.



28. UT911203-010

Dept. of Environmental Quality/Price River Water Improvement District: Public Notice or Issuance of UPDES Permit - Permit renewal. Comments due 12-22-91.

29. UT911126-040

*Copy needed for Sharon Dawson*

Dept. of Environmental Quality: Two Public Notices (DAQE 880-91, DAQE 879-91). Please see attached for text.

30. UT911209-020

*Copy Wayne*

Dept. of Environmental Quality/Kennecott Utah Copper: Public Notice of Issuance of Ground Water Discharge Permit. Comments due 1-2-92.

#### VIII. 404 Permits

31. UT910916-010

U.S. Army Corps of Engineers: General Permit 015 - Extension of expiration date.

32. UT911206-010

*Copy Sharon/Full*

U.S. Army Corps of Engineers/Kane County: Public Notice No. 1991001152 - To deepen a channel between Wahweap and Warm Creek Bays near Castle Rock. Comments due 12-16-91.

33. UT911209-010

U. S. Army Corps of Engineers/Weber & Davis County: Public Notice No. 199101156 - To discharge fill material in connection with impoundments and water distribution in the Hooper Hot Springs Waterfowl Management Area (Sec. 26 and 27; T5N, R3W). Comments due 12-23-91.

#### VIII. INFORMATION

34. NA

USDA/Forest Service: Wasatch-Cache National Forest - Wasatch-Cache National Forest - Mt. Naomi Wilderness Area - Regarding decision on predator control.



## REVEGETATION

A 16-16-8 fertilizer will be applied at a rate of 250 pounds per acre. depending upon terrain at specific locations, fertilizer will be applied by a spreader pulled by a tractor or will be broadcasted by hand. Organic matter or mulch will not be applied. The agronomic procedure will include tilling and drilling seeding to be performed by a snow cat pulling a tilling/seeding machine. depth of drilling will be 3 inches. Broadcast seeding by hand will be performed on steeper slopes. The seed mixture is:

TABLE 1

### FINAL RECLAMATION SEED MIX

Seed	Rate* (lbs./acre)
<u>Grasses</u>	
<u>Agropyron dasystachyum</u> (thickspike wheatgrass)	2.0
<u>Agropyron intermedium</u> (intermediate wheatgrass)	2.0
<u>Agropyron smithii</u> (western wheatgrass)	2.0
<u>Agropyron trachycaulum</u> (slender wheatgrass)	1.5
<u>Agropyron trichophorum</u> (pubescent wheatgrass)	2.0
<u>Oryzopsis hymenoides</u> (indian ricegrass)	1.0
<u>Forbs</u>	
<u>Achillea millefolium</u> (yarrow)	.1
<u>Aster Chilensis</u> (Pacific aster)	.1
<u>Hedysarum boreale utahensis</u> (Utah Sweetvetch)	1.0
<u>Linum lewisii</u> (Lewis flax)	.5
<u>Medicago sativa</u> ('Ranger' alfalfa)	1.0
<u>Melilotus officianalis</u> (yellow sweetclover)	1.0
<u>Penstemon strictus</u> (Rocky Mountain penstemon)	.2
<u>Shrubs</u>	
<u>Purshia tridentata</u> (antelope bitterbrush)	2.0
<u>Cowania mexicana stransburiana</u> (Stansbury cliffrose)	.1
<u>Artemisia tridentata tridentata</u> (big Sagebrush)	2.0
<u>Chrysothamnus nauseosus</u> (rubber rabbitbrush)	.5

### Total Seed

\*Rate is in terms of Pure Live Seed (PLS) for drill seeding only. The rate for broadcast seeding is double the drill rate.

Will monitor and maintain the revegetated areas annually for three years and every three years after that for a period of 18 years.

ANNUALLY FOR 3 YRS, THEN ONCE EVERY 3 YRS FOR 18 YRS